AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A medium for a scintillation assay, said medium comprising:

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- a solid body comprising a first scintillator material, wherein the first scintillator material is a fluorescent Coumarin dye having a Stokes shift of at least 50 nm, wherein the fluorescent emission of the solid body comprising the first scintillator material is in the range of 460-500 nm.
 - 2. (Canceled)
- 3. (Original) The medium of claim 1, wherein said dye has a Stokes shift of at least 100 nm.
- 4. (Original) The medium of claim 1, wherein said medium further includes a second scintillator material.
- 5. (Original) The medium of claim 4, wherein said second scintillator material is selected from the group consisting of: PPO, bis-MSB, DPA, and combinations thereof.
- 6. (Previously Presented) The medium of claim 1, wherein said solid body is a solid polymer bead having said Coumarin dye incorporated therein.
 - 7. (Original) The medium of claim 6, further including BiBuQ incorporated therein.
 - 8. (Canceled)
- 9. (Previously Presented) A method for carrying out an assay for detecting or quantifying a radio nuclide emission, said method comprising the steps of:

providing a scintillation medium comprising a solid body which contains a first scintillator material which is a Coumarin dye having a Stokes shift of at least 50 nm, wherein the

fluorescent emission of the solid body which contains a Coumarin dye is in the range of 460-500 nm;

contacting said scintillation medium with an analyte suspected of having said radionuclide therein; and

detecting any scintillation caused in said medium by said radionuclide.

10. (Canceled)

- 11. (Original) The method of claim 9, wherein said Coumarin dye has a Stokes shift of at least 100 nm.
- 12. (Previously Presented) The method of claim 9, wherein said solid body is selected from: a polymer bead and a vessel for retaining a liquid scintillation.

13. (Canceled)

- 14. (Original) The method of claim 9, wherein said scintillation medium further includes a second scintillator material.
- 15. (Original) The method of claim 14, wherein said second scintillator material is selected from the group consisting of: PPO, bis-MSB, DPA, BiBuQ, and combinations thereof.
- 16. (Previously Presented) A solid state member for a scintillation proximity assay, said member comprising:

a polymeric material having a first scintillator material which is a fluorescent Coumarin dye incorporated therein, said Coumarin dye further characterized in that it has a Stokes shift of at least 50 nm, wherein said solid state member has a fluorescent emission in the range of 460-500 nm.

17. (Canceled)

- 18. (Original) The member of claim 16, wherein said dye is further characterized in that it has Stokes shift of at least 100 nm.
- 19. (Original) The member of claim 16, wherein said Coumarin dye is selected from the group consisting of Coumarin 153, Coumarin 152, and combinations thereof.
- 20. (Original) The member of claim 16, further including a second scintillator material therein.
- 21. (Original) The member of claim 20, wherein said second scintillator material is selected from the group consisting of: PPO, bis-MSB, DPA, BiBuQ, and combinations thereof.
- 22. (Original) The member claim 16, wherein said polymeric material is configured as a bead.
- 23. (Original) The member of claim 16, wherein said polymeric material is configured as a vessel for retaining a liquid.
- 24. (Original) The member of claim 16, wherein said polymeric material is applied to the surface of a vessel configured to retain a liquid.
 - 25. (Previously Presented) A liquid scintillation cocktail comprising:
- a first scintillator material which is a fluorescent Coumarin dye having a Stokes shift of at least 50 nm; a second scintillator material selected from the group consisting of: PPO, bis-MSB, DPA, combinations thereof; and
- a solvent for said first and second scintillator materials, wherein said liquid scintillation cocktail has a fluorescent emission in the range of 460-500 nm.

26. (Canceled)

27. (Original) The liquid scintillation cocktail of claim 25, wherein said Coumarin dye is further characterized in that has a Stokes shift of at least 100 nm.